	Application No.	Applicant(s)
·	09/480,390	WAGNER, MICHAEL P.
Notice of Allowability	Examiner	Art Unit
	Baoquoc N To	2172
The MAILING DATE of this communication apperature All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	ears on the cover sheet wi (OR REMAINS) CLOSED in or other appropriate commit GHTS. This application is	n this application. If not included unication will be mailed in due course. THIS
2. The allowed claim(s) is/are 41,46-50,65 and 70-74.		
3. The drawings filed on 11 January 2000 are accepted by the	e Examiner.	
4. ☐ Acknowledgment is made of a claim for foreign priority ur a) ☐ All b) ☐ Some* c) ☐ None of the: 1. ☐ Certified copies of the priority documents have 2. ☐ Certified copies of the priority documents have 3. ☐ Copies of the certified copies of the priority documents have lnternational Bureau (PCT Rule 17.2(a)). * Certified copies not received:	been received. been received in Application	on No
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		e a reply complying with the requirements
5. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give		
6. CORRECTED DRAWINGS (as "replacement sheets") mus		(DTO 040) - # - 1 - 1
 (a) ☐ including changes required by the Notice of Draftspers 1) ☐ hereto or 2) ☐ to Paper No./Mail Date 		w (P10-948) attached
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date		r in the Office action of
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t	.84(c)) should be written on t he header according to 37 CF	he drawings in the front (not the back) of FR 1.121(d).
7. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT		
 Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/O Paper No./Mail Date	6. ☐ Interview S Paper No. 98), 7. ☐ Examiner's	Informal Patent Application (PTO-152) JEANAM CORRIELUS PRIMARY EXAMINER

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DETAILED ACTION

1. Claims 41, 46, 65 and 70 are amended and claims 42-45, 51-64 and 61-69 are canceled. Claims 41, 46-50 and 65 and 70-74 are pending in this application.

Allowable Subject Matter

2. Claims 41, 46-50 and 65 and 70-74 are allowed.

The following is an examiner's statement of reasons for allowance: None of the known prior art alone or in combination neither teach or suggest "maintaining a resource lock for each process requiring access to the resource, the resource lock having a plurality of fields requiring initialization in order for the process to access the resource, the plurality of fields including an owner indicator field for indicating an owner process for the resource;

receiving, by a first process, an inquiry from a second process inquiring whether the first process owns the resource;

determining by the first process, an owner process for the resource other than the first process;

creating a ghost lock for the first process, wherein the ghost lock is a partial instantiation of a resource lock having at least the owner indicator field initialized to indicate the owner process determined for the resource but having less than all fields initialized, and wherein the ghost lock allows the first process to identify the owner process for the resource without first sending an inquiry message to determine the owner process;

sending, by the second process, an inquiry to a third process inquiring

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whether the third process owns the resource;

receiving, by the second process, a response from the third process indication whether the third process is the owner process for the resource;

determining, by the second process that the second process is the owner process for the resource, if the response indicates that the third process is not the owner process for the resource;

creating an owner lock for the second process if the second process is the owner process for the resource, wherein the owner lock is a resource lock having all fields initialized and the owner indicator field indicating that the second process is the owner process for the resource; and

creating a reference lock for the second process if the third process is the owner process for the resource, wherein the reference lock is a resource lock having all fields initialized and the owner indicator field indication that the third process is the owner process for the resource."

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

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Patent

Brealey et al. (US. Patent No. 6,026,401) Patent date: 02/15/2000

Agesen et al. (US. Patent No. 6,173,442) Patent date: 01/09/2001

Toutonghi (US. Patent No. 5,586,318) Patent date: 12/17/1996

Williams et al. (EP 969369 A2) Patent date: 01/05/0000

Non-Patent

Kawachiya et al. (Lock reservation: Java Locks Can Mostly Do Without Atomic Operations), IBM Research, Tokyo Research Laboratory, Year 2002, Pages 130-141, ISPN: 1-58113-471-1

Contact Information

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Baoquoc N. To whose telephone number is (703) 305-1949 or via e-mail Baoquoc N. To @uspto.gov. The examiner can normally be reached on Monday-Friday: 8:00 AM – 4:30 PM, EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Breene can be reached at (703) 305-9790.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-3900.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks Washington, D.C. 20231.

The fax numbers for the organization where this application or proceeding is assigned are as follow:

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(703) 872-9306 [Official Communication]

Hand-delivered responses should be brought to:

Crystal Park II
2121 Crystal Drive
Arlington, VA 22202
Fourth Floor (Receptionist).

Baoquoc N. To July 22, 2004

> JEAN W. CORRIELUS PRIMARY EXAMINER